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1 Technical correspondence: Representing change by aspect

Peter Dolog, Valentino Vranić, Mária Bieliková

December 2001 **ACM SIGPLAN Notices**, Volume 36 Issue 12

Publisher: ACM Press

Full text available: pdf(801.17 KB) Additional Information: full citation, abstract, references, index terms

We propose the application of aspectoriented programming to software configuration management. We believe it could improve the change control by providing a new basis for reasoning about a change. To demonstrate this, we designed an abstract-oriented extension to procedural languages where a change is represented by an aspect. Consequently, a change gains the properties of an aspect: it becomes well-localized and separated from the (unchanged) base program. This goes beyond the current capabilit ...

Keywords: aspect-oriented programming, change control, change representation

2 Mining Software Repositories (MSR): Towards a taxonomy of approaches for mining of source code repositories

Huzefa Kagdi, Michael L. Collard, Jonathan I. Maletic

May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2005 international workshop on Mining software repositories MSR '05**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(102.53 KB) Additional Information: full citation, abstract, references, index terms

Source code version repositories provide a treasure of information encompassing the changes introduced in the system throughout its evolution. These repositories are typically managed by tools such as CVS. However, these tools identify and express changes in terms of physical attributes i.e., file and line numbers. Recently, to help support the mining of software repositories (MSR), researchers have proposed methods to derive and express changes from source code repositories in a more source-cod ...

Keywords: mining software repositories, survey, taxonomy

3 Yesterday, my program worked. Today, it does not. Why?

Andreas Zeller

October 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 7th European software engineering conference held jointly with the 7th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-7**, Volume 24 Issue 6

Publisher: Springer-Verlag, ACM Press

Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, citings, index terms

Imagine some program and a number of changes. If none of these changes is applied ("yesterday"), the program works. If all changes are applied ("today"), the program does not work. Which change is responsible for the failure? We present an efficient algorithm that determines the minimal set of failure-inducing changes. Our delta debugging prototype tracked down a single failure-inducing change from 178,000 changed GDB lines within a few hours.

4 Applications: Repairing return address stack for buffer overflow protection

Yong-Joon Park, Gyungho Lee

April 2004 **Proceedings of the 1st conference on Computing frontiers**

Publisher: ACM Press

Full text available: pdf(197.90 KB) Additional Information: full citation, abstract, references, index terms

Although many defense mechanisms against buffer overflow attacks have been proposed, buffer overflow vulnerability in software is still one of the most prevalent vulnerabilities exploited. This paper proposes a micro-architecture based defense mechanism against buffer overflow attacks. As buffer overflow attack leads to a compromised return address, our approach is to provide a software transparent micro-architectural support for return address integrity checking. By keeping an uncompromised cop ...

Keywords: buffer overflow, computer architecture, computer security, intrusion tolerance

5 An object-oriented approach to data management: why design databases need it

S. Heiler, U. Dayal, J. Orenstein, S. Radke-Sproull

October 1987 **Proceedings of the 24th ACM/IEEE conference on Design automation**

Publisher: ACM Press

Full text available: pdf(702.96 KB) Additional Information: full citation, abstract, references, citings, index terms

An object-oriented approach to management of engineering design data requires object persistence, object-specific rules for concurrency control and recovery, views, complex objects and derived data, and specialized treatment of operations, constraints, relationships and type descriptions. We discuss object-orientation as more than an implementation paradigm, and show how an object-oriented approach simplifies both use and implementation of engineering design systems.

6 A unified version model for configuration management

Andreas Zeller

October 1995 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 3rd ACM SIGSOFT symposium on Foundations of software engineering SIGSOFT '95**, Volume 20 Issue 4

Publisher: ACM Press

Full text available: pdf(1.02 MB) Additional Information: full citation, references, citings, index terms

7 Tailoring OO analysis and design methods (panel)

Frank Armour, Todd Cotton, Geoff Hambrick, Barbara Moo, Dennis Mancl

October 1995 **ACM SIGPLAN Notices , Proceedings of the tenth annual conference on Object-oriented programming systems, languages, and applications OOPSLA '95**, Volume 30 Issue 10

Publisher: ACM Press

Full text available: pdf(1.68 MB) Additional Information: full citation, references, index terms

8 Toward a unified framework for version modeling in engineering databases
Randy H. Katz
December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4
Publisher: ACM Press
Full text available: pdf(3.14 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Support for unusual applications such as computer-aided design data has been of increasing interest to database system architects. In this survey, we concentrate on one aspect of such support, namely, version modeling. By this, we mean the concepts suitable for structuring a database of complex engineering artifacts that evolve across multiple representations and over time and the operations through which such artifact descriptions are created and modified. There have been ...

9 RFC2717: Registration Procedures for URL Scheme Names
R. Petke, I. King
November 1999 rfc
Publisher: RFC Editor
Additional Information: full citation

This document defines the process by which new URL scheme names are registered.

10 Impact of software engineering research on the practice of software configuration management
Jacky Estublier, David Leblang, André van der Hoek, Reidar Conradi, Geoffrey Clemm, Walter Tichy, Darcy Wiborg-Weber
October 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 14 Issue 4
Publisher: ACM Press
Full text available: pdf(350.59 KB) Additional Information: full citation, abstract, references, index terms

Software Configuration Management (SCM) is an important discipline in professional software development and maintenance. The importance of SCM has increased as programs have become larger, more long lasting, and more mission and life critical. This article discusses the evolution of SCM technology from the early days of software development to the present, with a particular emphasis on the impact that university and industrial research has had along the way. Based on an analysis of the publicati ...

Keywords: Versioning, data model, process support, research impact, software configuration management, software engineering, workspace management

11 RFC2854: The 'text/html' Media Type
D. Connolly, L. Masinter
June 2000 rfc
Publisher: RFC Editor
Additional Information: full citation

This document summarizes the history of HTML development, and defines the "text/html" MIME type by pointing to the relevant W3C recommendations; it is intended to obsolete the previous IETF documents defining HTML, including RFC 1866, RFC 1867, RFC 1980, RFC 1942 and RFC 2070, and to remove HTML from IETF Standards Track.

12 Constructs and evaluations strategies for intelligent speculative parallelism—armageddon revisited
Adolfo Guzman, Manuel Hermenegildo
February 1988 **Proceedings of the 1988 ACM sixteenth annual conference on Computer science**
Publisher: ACM Press
Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(1.16 MB) terms

This report addresses speculative parallelism (the assignment of spare processing resources to tasks which are not known to be strictly required for the successful completion of a computation) at the user and application level. At this level, the execution of a program is seen as a (dynamic) tree—a graph, in general. A solution for a problem is a traversal of this graph from the initial state to a node known to be the answer. Speculative parallelism then represents the assignment of r ...

13 Special issue of the lexicon: Large lexicons for natural language processing: utilising the grammar coding system of LDOCE

Bran Boguraev, Ted Briscoe

July 1987 **Computational Linguistics**, Volume 13 Issue 3-4

Publisher: MIT Press

Full text available: pdf(1.66 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

This article focusses on the derivation of large lexicons for natural language processing. We describe the development of a dictionary support environment linking a restructured version of the Longman Dictionary of Contemporary English to natural language processing systems. The process of restructuring the information in the machine readable version of the dictionary is discussed. The Longman grammar code system is used to construct 'theory neutral' lexical entries. We demonstrate how such lexi ...

14 Article abstracts with full text online: Is KS=(D+I+S+K)*E + KM?

Juan Llorens, Rubén Prieto-Díaz

March 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: pdf(151.05 KB) Additional Information: full citation, abstract

Is it time for a science of knowledge? In this paper we argue that yes, it is time and define it as:KS = (D+I+S+K)*E + KMWhere KS is Knowledge Science, DE is Domain Engineering, IE is Information Engineering, SE is Software Engineering and KE is Knowledge Engineering, and that Knowledge Management (KM) moderates these disciplines. We try to clarify the apparent state of confusion in the current landscape where KS, KM and KE have different meanings to different audiences. After clarifying the dif ...

15 Invited papers: Impact of the research community on the field of software configuration management: summary of an impact project report

Jacky Estublier, David Leblang, Geoff Clemm, Reidar Conradi, Walter Tichy, André van der Hoek, Darcy Wiborg-Weber

September 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 5

Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, citings

Software Configuration Management (SCM) is an important discipline in professional software development and maintenance. The importance of SCM has increased as programs have become larger and more complex and mission/life-critical. This paper discusses the evolution of SCM technology from the early days of software development to present and the impact university and industrial research has had along the way. It also includes a survey of the industrial state-of-the-practice and research directio ...

Keywords: industrial impact, software configuration management, software engineering, software quality

16 Software configuration management: a roadmap

Jacky Estublier

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Publisher: ACM Press
Full text available: pdf(925.61 KB) Additional Information: full citation, references, citings, index terms

Keywords: architecture, concurrent engineering, federation, interoperability, process support, software configuration management, version control

17 Sharing manufacturing information in virtual enterprises
Martin Hardwick, David L. Spooner, Tom Rando, K. C. Morris
February 1996 **Communications of the ACM**, Volume 39 Issue 2
Publisher: ACM Press
Full text available: pdf(306.11 KB) Additional Information: full citation, references, citings, index terms

18 Interesting problems in transforming existing software for reusability
Kathleen Gilroy
November 1994 **Proceedings of the conference on TRI-Ada '94**
Publisher: ACM Press
Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, index terms

This paper discusses some of the technical problems encountered in the automated transformation of Ada software to improve its ability to be reused in other systems. It also presents approaches for addressing those problems. The specific transformations covered in this paper are:• Replacing visible data structures with private types• Converting non-generic units into generic units• Extracting Abstract Data ...

19 Cross-Organizational Transaction Support for E-Services in Virtual Enterprises
Jochem Vonk, Paul Grefen
September 2003 **Distributed and Parallel Databases**, Volume 14 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: Publisher Site Additional Information: full citation, abstract, references, index terms, review

In recent years, workflow management systems have become an accepted technology to support automation in process-centric environments. Lately, organizations concentrate more and more on their core business processes while outsourcing supporting processes to other organizations, thereby forming virtual enterprises. The organizations forming the virtual enterprise operate in a B2B e-commerce setting in which provider organizations perform e-services for consumer organizations. To apply workflow ...

Keywords: B2B e-commerce, cross-organizational business process, e-service, service outsourcing, transaction management, virtual enterprise, workflow management

20 A taste of the Modula-2 standard
Mark Woodman
September 1993 **ACM SIGPLAN Notices**, Volume 28 Issue 9
Publisher: ACM Press
Full text available: pdf(819.19 KB) Additional Information: full citation, citings, index terms